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Technology Center 2100

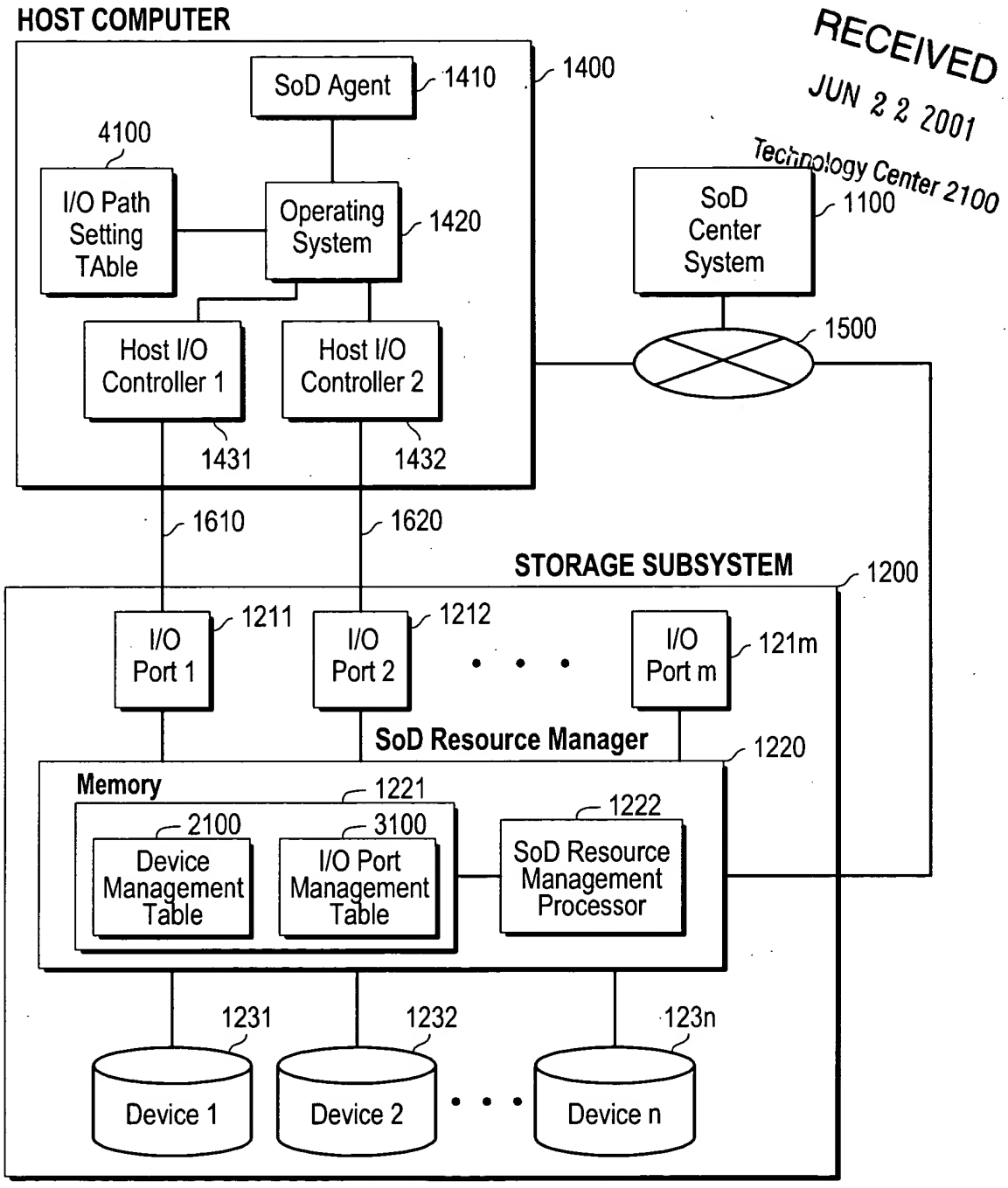

Fig. 1

Fig. 2

2100

2101 DEVICE NO.	2102 INSTALLATION STATUS	2103 SOD STATUS	2104 SIZE
1	INSTALLED	USABLE	500 GB
2	INSTALLED	USABLE	500 GB
3	INSTALLED	UN-USABLE	250 GB
4	INSTALLED	UN-USABLE	250 GB
5	UN-INSTALLED	N/A	N/A
⋮			
n	UN-INSTALLED	N/A	N/A

Fig. 3

3100

3101 I/O PORT NO.	3102 INSTALLATION STATUS	3103 SOD STATUS	3104 DEVICE NO.
1	INSTALLED	USABLE	1,2
2	INSTALLED	UN-USABLE	UN-ALLOCATED
3	UN-INSTALLED	N/A	250 GB
⋮			
m	UN-INSTALLED	N/A	N/A

Fig. 4

4100

4101 I/O PATH NO.	4102 HOST I/O CONTROLLER NO.	4103 I/O PORT NO.
1	1	1
2	UN-DEFINED	N/A
3	UN-DEFINED	N/A
⋮		

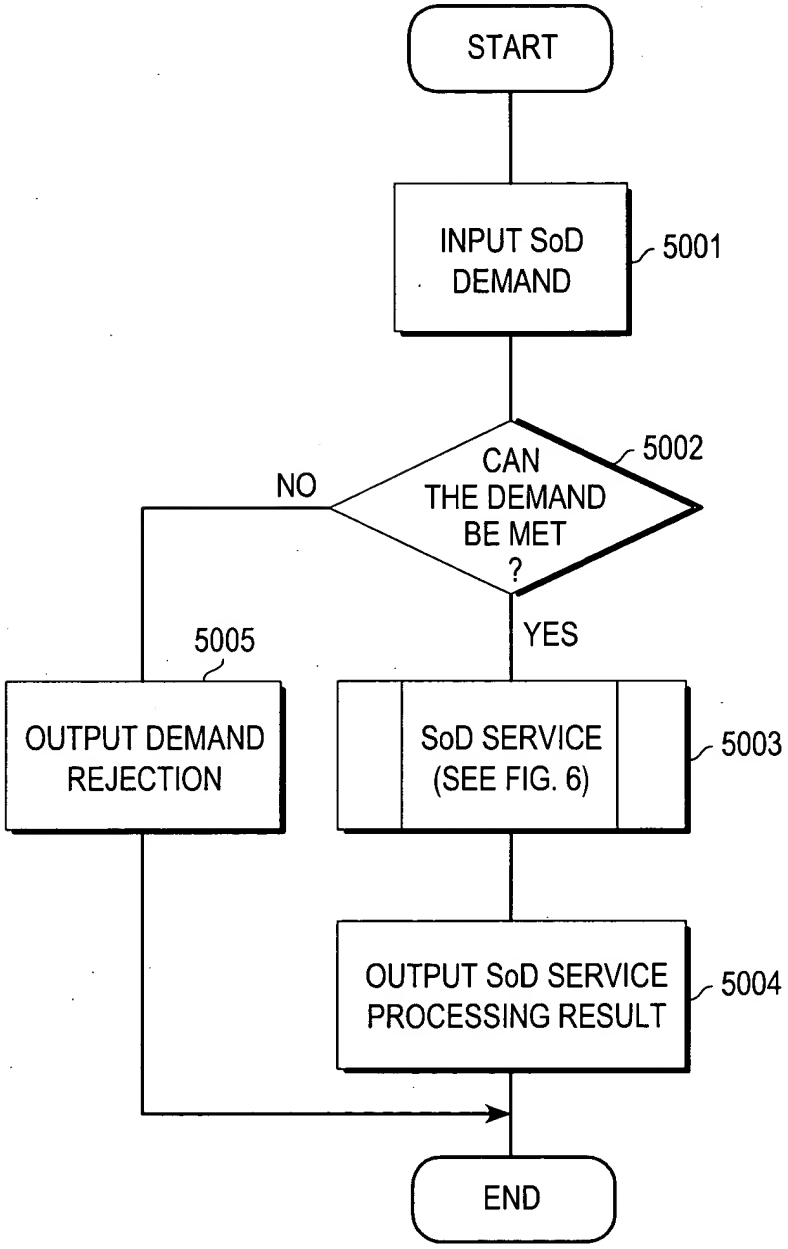
START
INPUT SoD DEMAND
5001
CAN THE DEMAND BE MET ?
5002
NO
YES
5005
OUTPUT DEMAND REJECTION
SoD SERVICE (SEE FIG. 6)
5003
OUTPUT SoD SERVICE PROCESSING RESULT
5004
END

Fig. 5

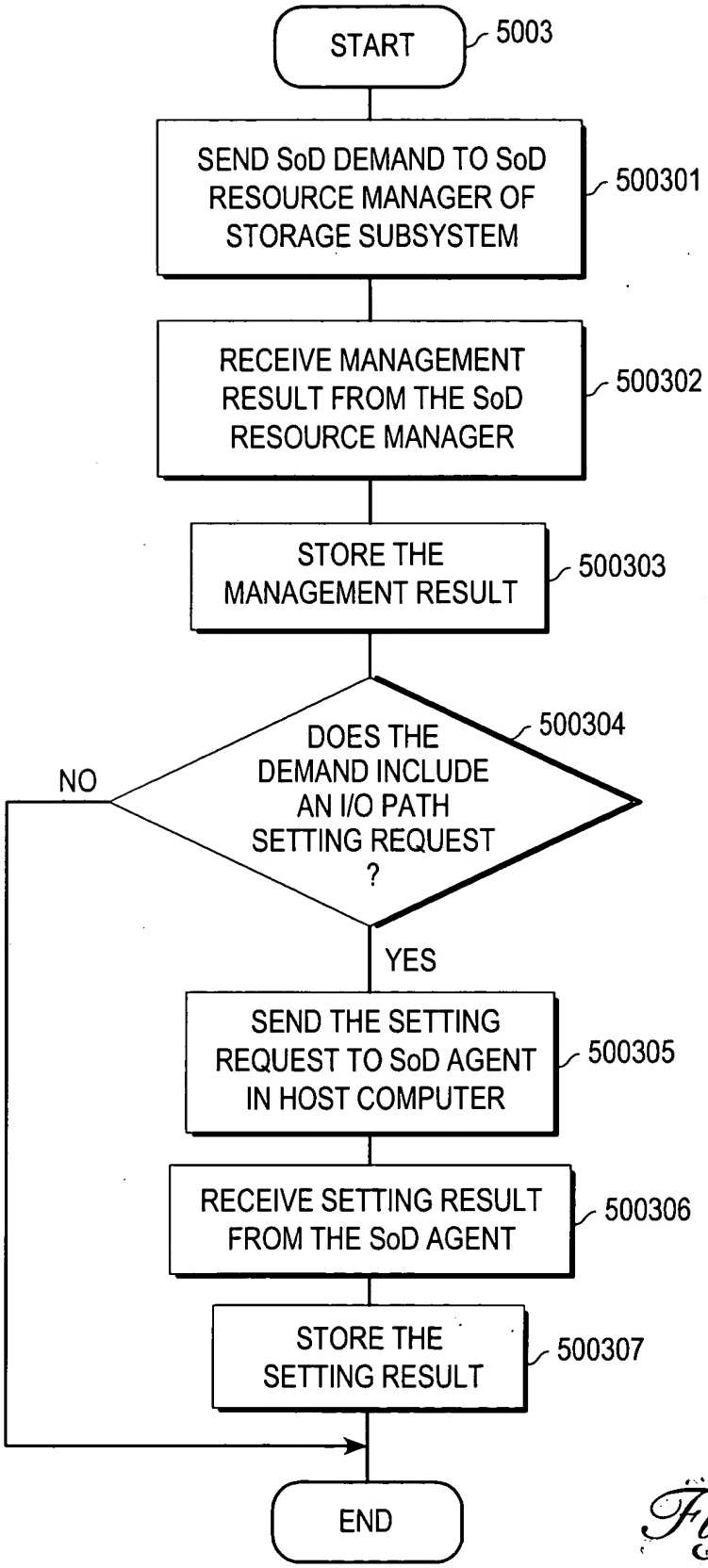
START
5003
SEND SoD DEMAND TO SoD RESOURCE MANAGER OF STORAGE SUBSYSTEM
500301
RECEIVE MANAGEMENT RESULT FROM THE SoD RESOURCE MANAGER
500302
STORE THE MANAGEMENT RESULT
500303
DOES THE DEMAND INCLUDE AN I/O PATH SETTING REQUEST ?
500304
NO
YES
SEND THE SETTING REQUEST TO SoD AGENT IN HOST COMPUTER
500305
RECEIVE SETTING RESULT FROM THE SoD AGENT
500306
STORE THE SETTING RESULT
500307
END

Fig. 6

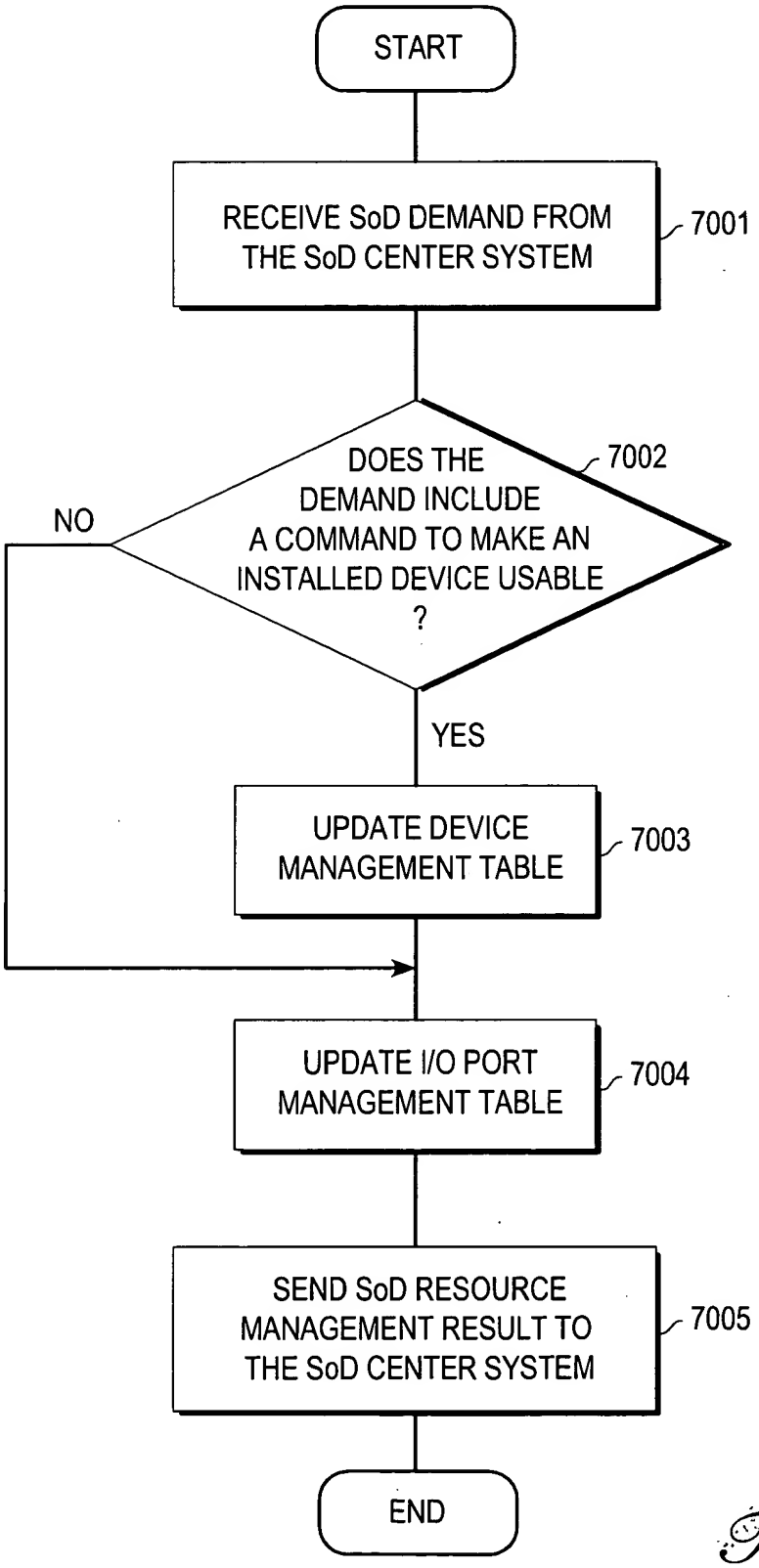
START
RECEIVE SoD DEMAND FROM THE SoD CENTER SYSTEM
7001
DOES THE DEMAND INCLUDE A COMMAND TO MAKE AN INSTALLED DEVICE USABLE ?
7002
NO
YES
UPDATE DEVICE MANAGEMENT TABLE
7003
UPDATE I/O PORT MANAGEMENT TABLE
7004
SEND SoD RESOURCE MANAGEMENT RESULT TO THE SoD CENTER SYSTEM
7005
END

Fig. 7

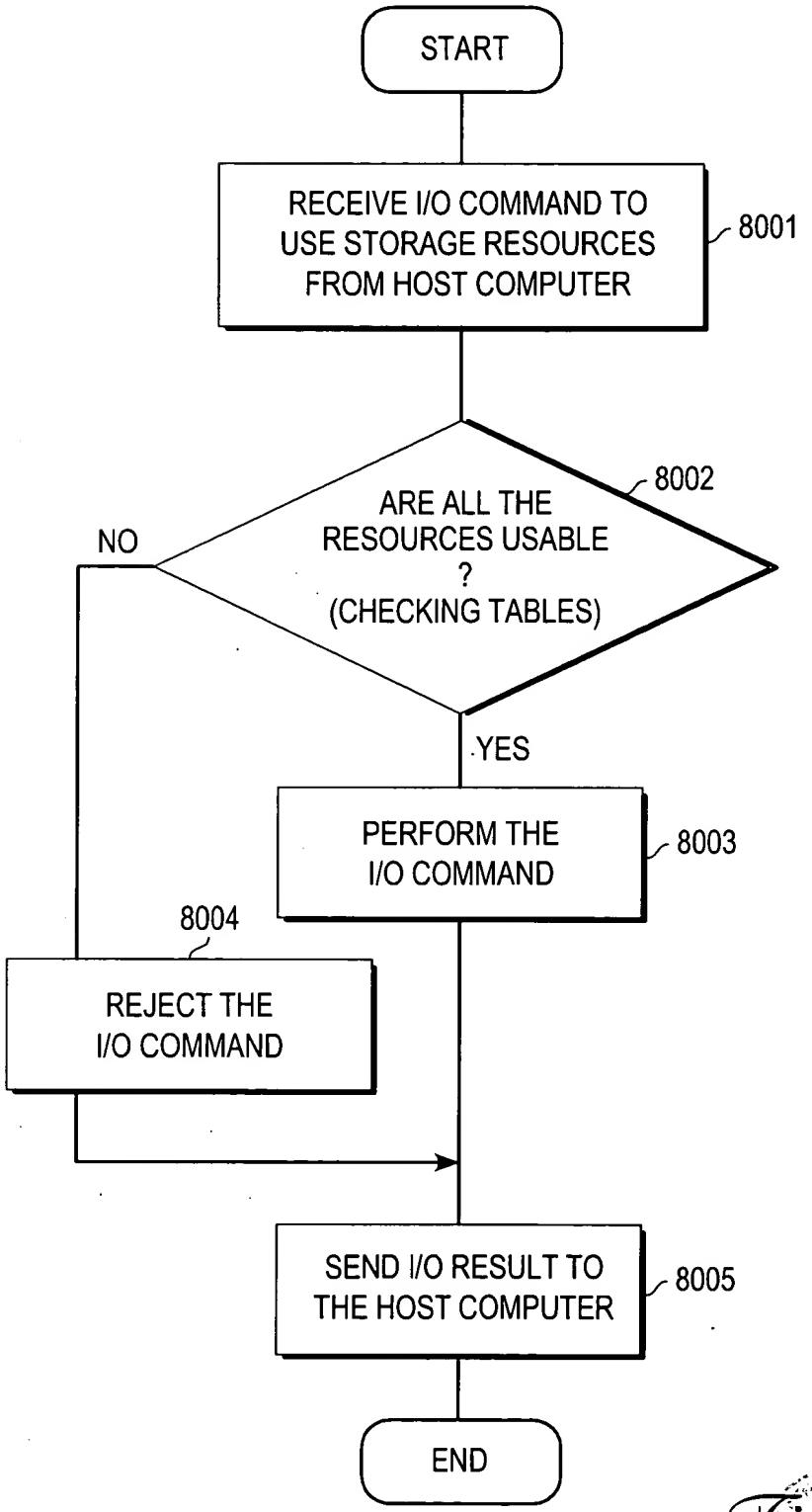
START
RECEIVE I/O COMMAND TO USE STORAGE RESOURCES FROM HOST COMPUTER
8001
ARE ALL THE RESOURCES USABLE ? (CHECKING TABLES)
8002
NO
YES
PERFORM THE I/O COMMAND
8003
8004
REJECT THE I/O COMMAND
SEND I/O RESULT TO THE HOST COMPUTER
8005
END

Fig. 8

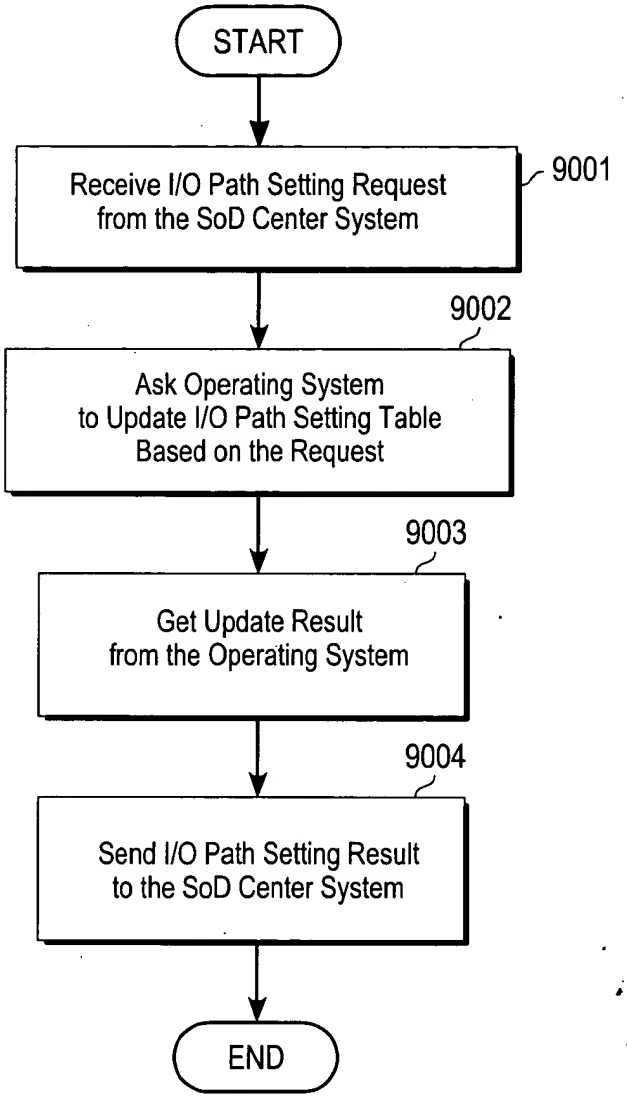
START
Receive I/O Path Setting Request from the SoD Center System
9001
9002
Ask Operating System to Update I/O Path Setting Table Based on the Request
9003
Get Update Result from the Operating System
9004
Send I/O Path Setting Result to the SoD Center System
END

Fig. 9

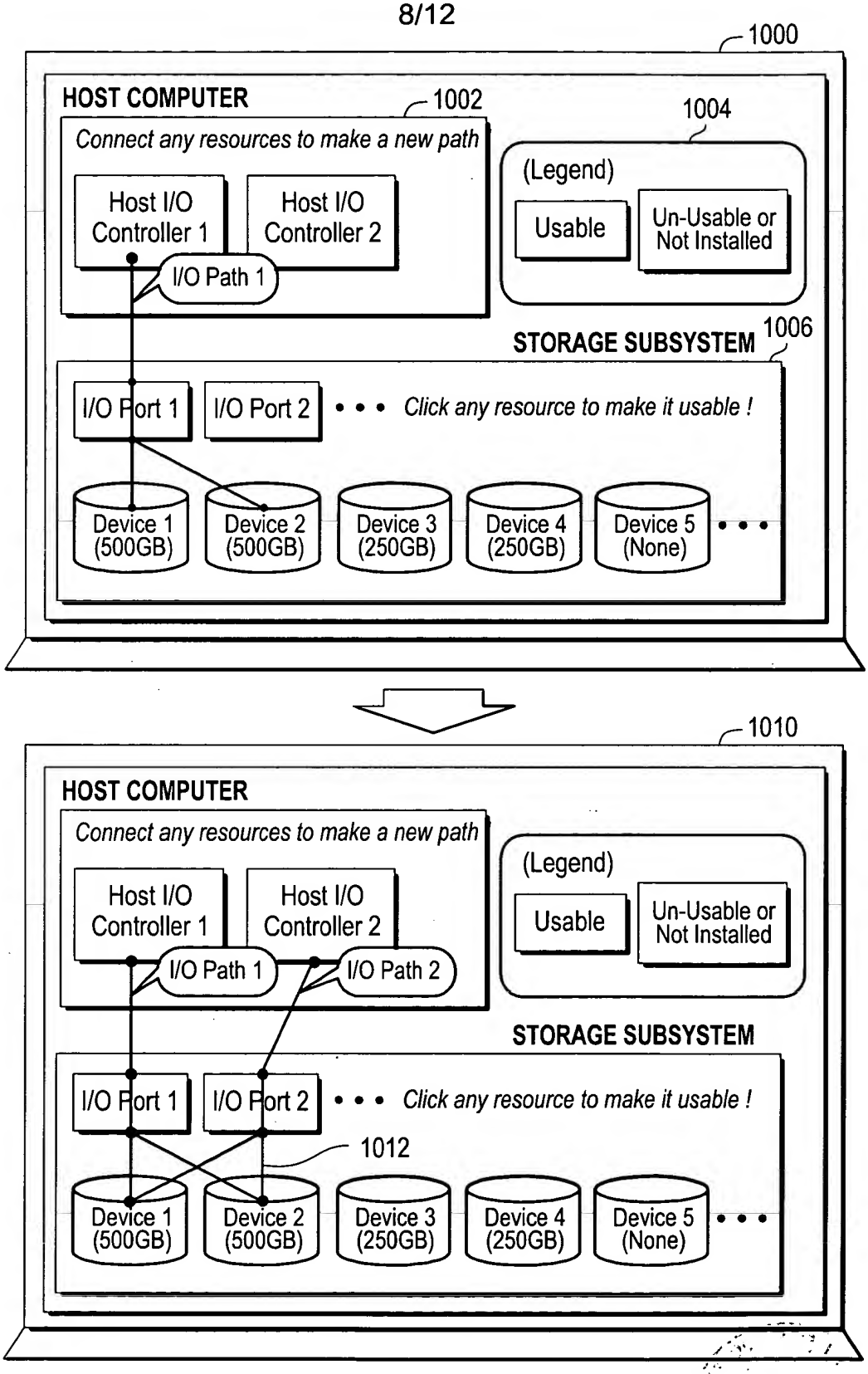
1000
HOST COMPUTER
1002
Connect any resources to make a new path
Host I/O Controller 1
Host I/O Controller 2
I/O Path 1
1004
(Legend)
Usable
Un-Usable or Not Installed
STORAGE SUBSYSTEM
1006
I/O Port 1
I/O Port 2
Click any resource to make it usable !
Device 1 (500GB)
Device 2 (500GB)
Device 3 (250GB)
Device 4 (250GB)
Device 5 (None)
1010
HOST COMPUTER
Connect any resources to make a new path
Host I/O Controller 1
Host I/O Controller 2
I/O Path 1
I/O Path 2
(Legend)
Usable
Un-Usable or Not Installed
STORAGE SUBSYSTEM
I/O Port 1
I/O Port 2
Click any resource to make it usable !
1012
Device 1 (500GB)
Device 2 (500GB)
Device 3 (250GB)
Device 4 (250GB)
Device 5 (None)

Fig. 10

Fig. 11

3101 I/O PORT NO.	3102 INSTALLATION STATUS	3103 SOD STATUS	3104 DEVICE NO.
1	INSTALLED	USABLE	1,2
2	INSTALLED	USABLE	1,2
3	UN-INSTALLED	N/A	N/A
⋮			
m	UN-INSTALLED	N/A	N/A

3100

Fig. 12

4101 I/O PATH NO.	4102 HOST I/O CONTROLLER NO.	4103 I/O PORT NO.
1	1	1
2	2	2
3	UN-DEFINED	N/A
⋮		

4100

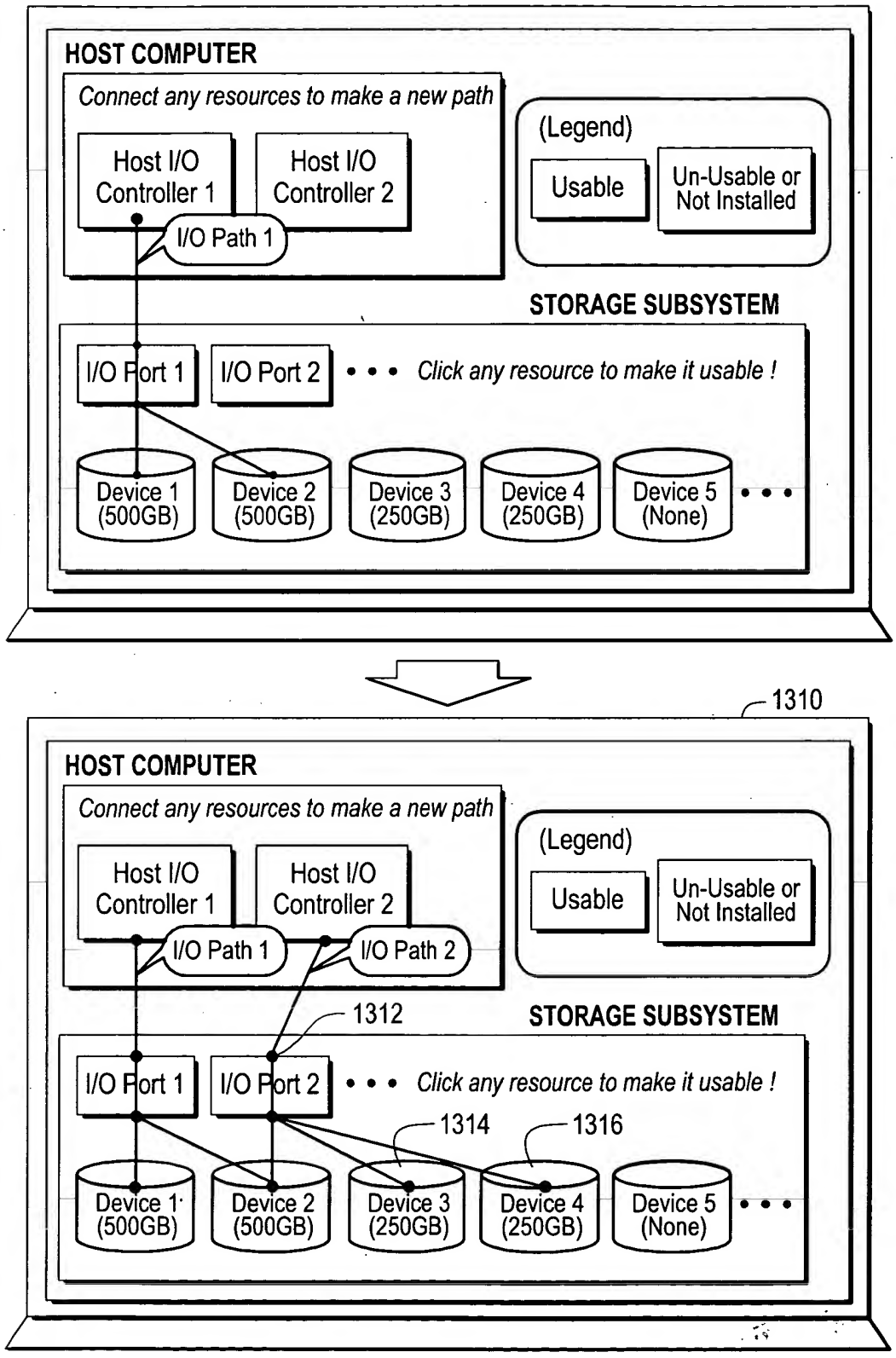
HOST COMPUTER
Connect any resources to make a new path
Host I/O Controller 1
Host I/O Controller 2
I/O Path 1
(Legend)
Usable
Un-Usable or Not Installed
STORAGE SUBSYSTEM
I/O Port 1
I/O Port 2
• • • Click any resource to make it usable !
Device 1 (500GB)
Device 2 (500GB)
Device 3 (250GB)
Device 4 (250GB)
Device 5 (None)
1310
HOST COMPUTER
Connect any resources to make a new path
Host I/O Controller 1
Host I/O Controller 2
I/O Path 1
I/O Path 2
(Legend)
Usable
Un-Usable or Not Installed
1312
STORAGE SUBSYSTEM
I/O Port 1
I/O Port 2
• • • Click any resource to make it usable !
1314
1316
Device 1 (500GB)
Device 2 (500GB)
Device 3 (250GB)
Device 4 (250GB)
Device 5 (None)

Fig. 13

Fig. 14

2101 DEVICE NO.	2102 INSTALLATION STATUS	2103 SOD STATUS	2104 SIZE
1	INSTALLED	USABLE	500 GB
2	INSTALLED	USABLE	500 GB
3	INSTALLED	USABLE	250 GB
4	INSTALLED	USABLE	250 GB
5	UN-INSTALLED	N/A	N/A
⋮			
n	UN-INSTALLED	N/A	N/A

2100

Fig. 15

3101 I/O PORT NO.	3102 INSTALLATION STATUS	3103 SOD STATUS	3104 DEVICE NO.
1	INSTALLED	USABLE	1,2
2	INSTALLED	USABLE	3,4
3	UN-INSTALLED	N/A	N/A
⋮			
m	UN-INSTALLED	N/A	N/A

3100

Fig. 16

4101 I/O PATH NO.	4102 HOST I/O CONTROLLER NO.	4103 I/O PORT NO.
1	1	1
2	2	2
3	UN-DEFINED	N/A
⋮		

4100

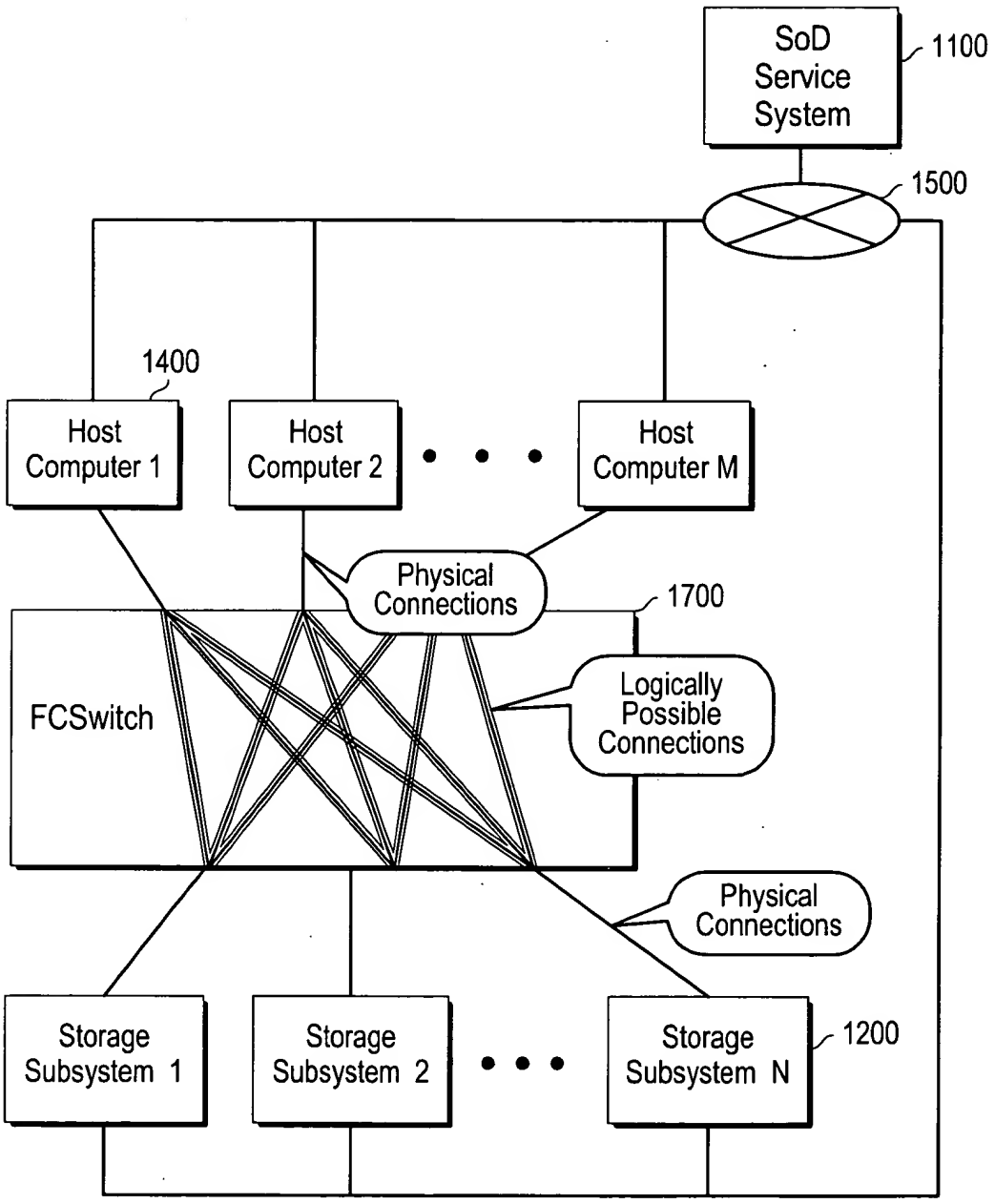
SoD Service System
1100
1500
1400
Host Computer 1
Host Computer 2
Host Computer M
Physical Connections
1700
FCSwitch
Logically Possible Connections
Physical Connections
Storage Subsystem 1
Storage Subsystem 2
Storage Subsystem N
1200

Fig. 17